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August 25, 1961

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Dear Sirs:

Enclosed are four copies of the minutes of the meeting held [redacted] on August 23, 1961.

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Sincerely yours,

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Mort W.

zmt

Encl. - 4

"NOTE: THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE MEANING OF THE ESPIONAGE LAWS, ACT 23 JUNE 1948 (PUBLIC LAW 772 - 80TH CONG; 18 U.S.C. 793 AND 794; 62 STAT. 683). THE TRANSMISSION OR THE REVELATION OF ITS CONTENTS IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW"

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Minutes of the Meeting with the Washington Customer

[] on August 23, 1961

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Those present were:

Customer: Nick G.

[] Mort W.
Len B.

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The purpose of this meeting was for the customer to pick up the first two HRT-2 beacon transmitters and his thermo-electric generator.

The mechanical construction of the present unit was reviewed in detail. Changes that will be made on the next 25 units were pointed out. A number of additions or changes were requested by the customer. Among these were the following:

1. Chain the screwdriver to the units so they cannot be lost or stolen.
2. Make the 50 ohm antenna binding posts all metal, rather than the present plastic and metal construction.
3. Make the screw slot on the output coil more readily available. The present slot is difficult to hit because it cannot be readily seen.
4. Make the oscillator core tunable with a screwdriver, instead of the special tool now required.
5. Devise a poncho-like waterproof cover for use with the 16 foot antenna to enable its use in rain.
6. Provide an etched schematic somewhere in the housing.
7. Order at least 10 more batteries for their field testing.

The possibility of making the unit tunable with a knife blade was discussed, but discarded because of mechanical unfeasibility.

Operation of the pilot light was demonstrated. The light just began to glow at 8.5 volts supply and maintained almost constant intensity from 9 to 20 volts supply.

The price of the HRT-2 in quantities of 100 was reviewed. The latest estimate indicates a price of about \$700 per unit. It is possible that a sizeable price break will occur in the cost of the final transistor which is now \$125.

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Performance of the thermo-electric generator was reviewed. The power output into an optimum load resistor was only 14 to 15 watts, and appeared to be falling off each time it was used. A possible defect in the combustion chamber plate was pointed out to the customer. The optimum output would be 1.5 to 2.0 amps at 15 volts.

The results of field testing of the HRT-2 with a 16 foot whip and the AR/A-42 antenna were discussed. No significant difference was found between ground measurements taken at 1/4 mile range during daytime vs. readings taken at night. Two field problems with the AR/A-42 were brought to the attention of the customer. The top section developed a burr and would not collapse into the next section. The two large braided feed leads should be insulated to prevent shorting when connected to the HRT-2.

Future testing and antenna redesign was discussed. Any design changes on the AR/A-42 should emphasize ease of setting up and tuning of the antenna with possibly a fixed tuned antenna. The possibility of more efficiency through longer ground radials or radials staked into the ground was mentioned as an item for future field testing. The aircraft testing was discussed. Heights for checking should be 500, 1000 and 3000 feet. If possible, propagation behind ridges or high hills should be investigated. It is doubtful whether such terrain can be found in the Chicago area.

The test transmitter was briefly discussed. The customer stated that the ARN-6 and ARN-7 direction finders would be used most often. He stated that he would see if he could obtain copies of the manuals.

The afternoon was spent field testing the 2 units for the customer. Close agreement with previous data was obtained.

The customer took back with him the following equipment:

- 2 - HRT-2 transmitters
- 4 - Batteries
- 1 - T-E generator

stated that the preliminary operating instruction would be in the customer's hands by Monday, August 28.

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Phone conversation of 8/24/61.

The customer requested that the crystal holders be made up with .093 pins to be compatible with crystals they now possess from other equipment.

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